

PHYSIO-CHEMICAL PROPERTIES OF SOIL IN KINNOW ORCHARD IN IRRIGATED AREA OF SRIGANGANAGAR DISTRICT IN RAJASTHAN

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Abstract: The experiment was conducted on “Physio-chemical properties of soil in kinnow orchard in irrigated area of sriganganagar district in rajasthan” during April, 2016 to April, 2017. The ninety soil samples with three depths *i.e.*, 0-30, 30-60 and 60-90 cm were collected from thirty kinnow orchards from different five tehsil (suratgarh, Raisinghnagar, sri vijaynagar, sri karanpur and sriganganagar) of sriganganagar district. The soil samples were analyzed for physio-chemical property of kinnow orchards being grown at farmer’s field. The kinnow orchard soils in this investigation were found the results showed that the pH and electrical conductivity of soil samples decreased with increasing soil depth, whereas, reverse trend was observed in calcium carbonate content. The kinnow orchard soils were found low in organic carbon.

Keyword: Orchard, Depth, Soil, L (location), Sample.

REFERENCES

- Balpande, H.S., Challa, O. and Prasad, J.** (2007). Characterization and classification of Grape-growing soils in Nasik district, Maharashtra. *Journal of Indian Society of Soil Science*, 55 : 80-83.
- Dhale, S.A. and Prasad, J.** (2009). Characterization and classification of sweet orange growing soils of Jalna district, Maharashtra. *Journal of the Indian Society of Soil Science*, 57(1): 11-17.
- Jat, M.** (2008). Mineral nutrient status of soils of aonla (*Emblica officinalis* G.) orchards, tehsil-Chomu, District-Jaipur (Rajasthan). M.Sc.(Ag.)Thesis, Rajasthan Agricultural University, Bikaner.
- Kumar, D.** (2004). Studies on yield and qualitative attributes of ber (*Zizyphus marutiana* Lamk) and pomegranate (*Punica granatum* L.) as affected by nutritional status of orchards. M.Sc. (Ag.) Thesis, Rajasthan Agricultural University, Bikaner.
- Kumar, R.** (2007). Response of soil nutrient status on leaf nutrient content and fruit yield of aonla. M.Sc. (Ag.) Thesis, Rajasthan Agricultural University, Bikaner.
- Marathe, R.A. and Bharambe, P.R.** (2007). Correlation of integrated nutrient management induced change in soil properties with yield and quality of sweet orange (*Citrus sinensis*) on Udic Haplustert. *Journal of the Indian Society of Soil Science*, 55 (3):270-27.
- NHB** (2016-17). National Horticulture Board, Horticulture Information Service-2016-2017
- Piper, C.S.** (1950). Soil and plant analysis. Inter-Service Publishers, Inc., New York.
- Richards, L.A.** (1954.) Diagnosis and improvement of saline and alkaline soils. USDA Handbook No. 60 Oxford and IBH Pub.Co. New Delhi.
- Sharma, R.K.** (2002). Mineral nutrient status of kinnow orchards in Sriganganagar tehsil of Rajasthan. M.Sc. Thesis, Rajasthan Agricultural University, Bikaner.

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